



**AGENDA**  
**AIRS Science Team Meeting**  
**October 9-12, 2007**  
**MARRIOTT GREENBELT**  
**Final Agenda**



**Tues. October 9, 2007**

*Continental Breakfast From 8:00 - 8:30 a.m.*

<b>Session 1: Introduction</b>	<b>8:30 - 11:10</b>
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Moustafa Chahine	JPL	Welcome and Introduction	8:30 AM
Ramesh Kakar	NASA HQ	Headquarters Perspective	8:50 AM
Tom Pagano	JPL	AIRS accomplishments and Future Direction	9:10 AM
Sharon Ray	JPL	AIRS EPO Status	9:30 AM

<b>NASA AIRS Science Team Awards Presentation</b>	<b>9:50 - 10:50 AM</b>
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Distribution of Certificates and Refreshments

<b>Session 2: AIRS Hyperspectral IR Science</b>	<b>10:50 - 4:30</b>
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George Aumann	JPL	AIRS Hyperspectral IR Science	10:50 AM
Lars Hoffmann	CORA	AIRS Stratospheric Temperature retrievals at full horizontal resolution	11:10 AM
Ramesh Singh	GMUniv	Changes in atmospheric parameters due to dust storm using AIRS Data	11:30 AM

**LUNCH** **12:00 -1:30 PM**

Eric Ray	NOAA	Impact of tropical cyclones on the upper troposphere	1:30 PM
Brian Kahn	JPL	Tropical thin cirrus and relative humidity distributions observed by AIRS and other A-Train observations	1:50 PM
Joao Teixeira	NATO	AIRS and the Pacific Cross-Section	2:10 PM

**BREAK** 2:30 PM

Mitch Goldberg	NOAA	AIRS and IASI eof and regression retrieval comparisons and radiance products for nwp and climate	2:50 PM
Steve Eckerman	NRL	Three-Dimensional Characterization of Atmospheric Gravity Waves Using Thermal Radiance Imagery from AIRS and AMSU-A	3:10 PM
Mike Theobald	GSFC	AIRS V5 Processing/Reprocessing at GES DISC	3:30 PM
Jason Li	NASA GES DISC	AIRS Data Support and Services at GES DISC	3:50 PM
Xinmin Hua	GSFC	A G-Polygon Based Spatial Prescreening Technique and its Application to AIRS Data	4:10 PM

**ADJOURN** **4:30 PM**



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**Wed. October 10, 2007**

*Continental Breakfast From 7:30 - 8:00 a.m.*

<b>Session 3: Data Assimilation</b>	<b>8:00 - 10:20 AM</b>
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*Tony McNally	ECMWF	ECMWF Update: AIRS and IASI Data	8:00 AM
*John Le Marshall	BOMA	Use of AIRS Cloud Cleared Radiances at NCEP	8:20 AM
Joel Susskind	GSFC	Assimilation of quality controlled AIRS temperature soundings	8:40 AM
Eugenia Kalnay	UMD	Data Assimilation Experiments with the UMD Local Ensemble Transform Kalman Filter	9:00 AM
Lars Peter Riishojgaard	JCDA	Use of AIRS at the Joint Center for Data Assimilation	9:20 AM
Oreste Reale/Robert Rosenbeg	GSFC	Improving Forecast Skill by Assimilation of QC'd; AIRS retrievals under partly cloudy conditions	9:40 AM
Brad Zavodsky	MSFC	AIRS Data Assimilation at SPoRT	10:00 AM

**BREAK**

10:20 AM

<b>Session 4: V5 Validation</b>	<b>10:40 - 2:30 PM</b>
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Eric Fetzer	JPL	Validation Plan for V5	10:40 AM
Hank Revercomb	UofW	Update on validation of AIRS radiances, retrievals and OLR product	11:00 AM
Brian Kahn	JPL	Cloud type comparisons of AIRS, CALIPSO, and CloudSat cloud height and amount	11:20 AM
Gary Jedlovec	MSFC	AIRS Boundary Layer Products	11:40 AM

**LUNCH**

**12:00 - 1:30 PM**

Nick Nalli	NOAA	PNE/AEROSE 2007 Cruise Summary	1:30 PM
Antonia Gambacorta	NOAA	An Assessment of the humidity-temperature relationship using AIRS	1:50 PM
Murty Divakarla	NOAA	V5 Ozone Validation	2:10 PM

<b>Session 5: Trace Gas Products &amp; Science</b>	<b>2:30 - 5:10 PM</b>
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Bill Irion	JPL	Optimal Estimation Retrieval of CO2 from AIRS Spectra	2:30 PM
Larrabee Strow	UMBC	A mid-lower troposphere climatology of CO2	2:50 PM
Eric Maddy	NOAA	An Update on NOAA AIRS CO2 retrievals	3:10 PM

**BREAK**

**3:30 PM**

Wallace McMillan	UMBC	A-Train tropospheric chemistry observations on 30 Aug 2006 over the 206 TexAQS/GoMACCS Study Area	3:50 PM
Debra Wicks	UMBC	Observations of stratospheric intrusions from the A-Train in 2006 during INTEx-B	4:10 PM
Leonid Yurganov	UMBC	Monitoring of biomass emissions from space: CO MOPITT, AIRS and TES global data for the last 8 years	4:30 PM
Juying Warner	UMBC	Preliminary results on the combination of AIRS and TES CO products	4:50 PM

**ADJOURN**

**5:10 PM**

\* Remote Presentation



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**Thurs. October 11, 2007**

*Continental Breakfast From 8:00 - 8:30 a.m.*

**Session 5: Trace Gas Products & Science (Continued)**

**8:30 - 10:50 PM**

Laura Pan	NCAR	The Use of the AIRS ozone data in the research of upper troposphere and lower stratosphere (UTLS) chemistry and dynamics	8:30 AM
Sergio Machado	UMBC	I-D Var Retrievals of Dust: Improved SST and water products	8:50 AM
Joanna Joiner	NASA	Validation of GMI and GMAO model CO simulations and non-linearity and implications for IR CO retrievals	9:10 AM
Xiaozhen Xiong	NOAA	An Update on NOAA/AIRS CH <sub>4</sub> Retrievals	9:30 AM
<b>BREAK</b>			<b>9:50 AM</b>
Fengying Sun	NOAA	Retrieval of Nitric Acid Vertical Profiles from the Atmospheric Infrared Sounder Measurements	10:10 AM
Xianglei Huang	U of Mich	Derivation of spectral fluxes and spectral cloud radiative forcing over the entire IR Region from collocated AIRS and CERES	10:30 AM

**Session 6: V6 Planning**

**10:50 - 5:00 PM**

Steve Friedman	JPL	V6 Schedule	10:50 AM
Denis Elliott	JPL	AIRS Calibration Status Plans for V6	11:10 AM
Joel Susskind	GSFC	Status and Plans for Version 6	11:30 AM
<b>LUNCH</b>			<b>12:00 - 1:30 PM</b>
Larrabee Strow	UMBC	RTA update for V6	1:30 PM
Evan Manning/Sung Yung Lee	JPL	Regression in AIRS V5 Retrievals	2:00 PM
Chris Barnet	NOAA	V6 Planning at NOAA	2:20 PM
Jennifer Wei	NOAA	Cloud Clearing vs. FOV	2:40 PM
<b>BREAK</b>			<b>3:00 PM</b>
Phil Rosenkranz	MIT	Microwave Algorithm changes for V6	3:20 PM
Bill Blackwell	MIT	SCC/NN Retrieval Status and Plans	3:40 PM
Bill Irion	JPL	Plans and ideas for trace gas retrieval algorithm in V6	4:00 PM
Pagano	JPL	Summary of Plans for V6 + Discussion	4:20 PM

**ADJOURN**

**5:00 PM**



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**Fri. October 12, 2007**

*Coffee/Tea from 7:30 - 8:00 a.m.*

Session 7: NPP Sounder Science Team			8:00 - Noon
Bjorn Lambrigtsen/Jim Gleason/Ramesh Kakar	NASA/JPL	Introduction	8:00 AM
Denise Hagan	NGST	CrIMSS Pre-Launch Calibration Activities and On-Orbit Validation Plans	8:15 AM
Ed Kim/Joseph Lyu	GSFC	ATMS Activation Plan and Cal/Val Plan	8:45 AM
Gail Bingham	SDC	CrIS SDR Algorithm	9:15 AM
<b>BREAK</b>			<b>9:45 AM</b>
Larrabee Strow	UMBC	Cross validation of IASI Radiances with AIRS	10:15 AM
Bill Smith		JAIVEx - Data and Lessons Learned for CrIS/ATMS Validation	10:35 AM
Xu Liu	LARC	3-D Atmospheric Characterization and assessing CrIS EDR Performance using IASI data	10:55 AM
Dan Zhou	NASA - LARC	Retrieval lessons learned from infrared ultraspectral data and retrieval characteristics defined using proxy IASI measurements	11:15 AM
Bill Blackwell	MIT	ATMS on-orbit cal/val plans	11:35 AM
Discussion			11:55 AM
<b>ADJOURN</b>			<b>12:30 PM</b>